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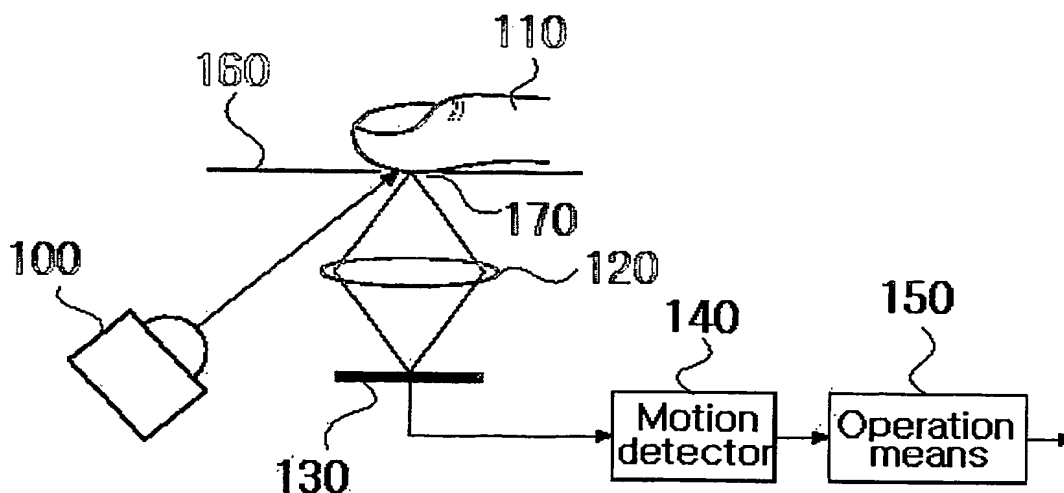
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[Continued on next page]

(54) Title: POINTING DEVICE



(57) Abstract: A pointing device to operate a portable electronic device using a finger is disclosed. The pointing device comprises a light emitting means for illuminating a subject; a hole through which light from the light emitting means is transmitted; an image-acquisition area for taking an image of the subject from the transmitted light; an image-formation means for forming an image by focusing the light reflected from the image-acquisition area; a conversion means for converting the image formed by the image-formation means into an electric signal; and an operation means for detecting the change of the image and calculating the amount of the change using the electric signal output from the conversion means. The subject is preferably the surface of a finger, a lattice, or any perceivable pattern. The pointing device can be embodied on portable electronic devices such as cellular phones and PDAs because it is small in size.

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**B. FIELDS SEARCHED**

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR:IPC as aboveElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKIPASS "pointing device", "finger"**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US2003/0020688 A1 (Allen C. Norskog) Jan.30.2003	1-20
A	WO 0114957 A1 (LEOW, Hiew, Pang) Mar. 01. 2001	1-20
A	US6184863 B1 (The George Washington University) Feb. 06.2001	1-20

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